



SEQUENCE LISTING

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<120> PROTEOME EPITOPE TAGS AND METHODS OF USE THEREOF IN PROTEIN
MODIFICATION ANALYSIS

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 Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu Cys Lys Val
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 Thr Leu Thr Gln Lys Arg His Leu Val Lys Phe Val Cys Leu Gly Cys
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 Phe Gly Phe Ile Val Pro Leu Phe Val Met Leu Phe Cys Tyr Gly Phe
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 Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys His Arg Ala
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 Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg Thr Gln Val
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 Ala Thr Glu Ile Leu Gly Phe Leu His Ser Cys Leu Asn Pro Ile Ile
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 Tyr Ala Phe Ile Gly Gln Asn Phe Arg His Gly Phe Leu Lys Ile Leu
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Leu Tyr Ala Val Arg Ser Glu Arg Lys Leu His Thr Val Gly Asn Leu
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Tyr Ile Val Ser Leu Ser Val Ala Asp Leu Ile Val Gly Ala Val Val
 65 70 75 80

Met Pro Met Asn Ile Leu Tyr Leu Leu Met Ser Lys Trp Ser Leu Gly
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Arg Pro Leu Cys Leu Phe Trp Leu Ser Met Asp Tyr Val Ala Ser Thr
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Ala Ser Ile Phe Ser Val Phe Ile Leu Cys Ile Asp Arg Tyr Arg Ser
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Val Gln Gln Pro Leu Arg Tyr Leu Lys Tyr Arg Thr Lys Thr Arg Ala
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Ser Ala Thr Ile Leu Gly Ala Trp Phe Leu Ser Phe Leu Trp Val Ile
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Pro Ile Leu Gly Trp Asn His Phe Met Gln Gln Thr Ser Val Arg Arg
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Glu Asp Lys Cys Glu Thr Asp Phe Tyr Asp Val Thr Trp Phe Lys Val
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Met Thr Ala Ile Ile Asn Phe Tyr Leu Pro Thr Leu Leu Met Leu Trp
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Phe Tyr Ala Lys Ile Tyr Lys Ala Val Arg Gln His Cys Gln His Arg
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Glu Leu Ile Asn Arg Ser Leu Pro Ser Phe Ser Glu Ile Lys Leu Arg
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Pro Glu Asn Pro Lys Gly Asp Ala Lys Lys Pro Gly Lys Glu Ser Pro
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Trp Glu Val Leu Lys Arg Lys Pro Lys Asp Ala Gly Gly Gly Ser Val
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Leu Lys Ser Pro Ser Gln Thr Pro Lys Glu Met Lys Ser Pro Val Val
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Phe Ser Gln Glu Asp Asp Arg Glu Val Asp Lys Leu Tyr Cys Phe Pro
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<213> Unknown Organism

<220>

<223> Peptide used to illustrate phosphorylation site

<400> 636

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1 5 10

<210> 637

<211> 8

<212> PRT

<213> Unknown Organism

<220>

<223> Peptide used to illustrate phosphorylation site

<400> 637

Phe Arg Arg Leu Ser Ile Ser Thr
1 5

<210> 638
 <211> 11
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<220>
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 1 5 10

<210> 639
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<220>
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<220>
 <223> Peptide used to illustrate phosphorylation site

<220>
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 1 5 10

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<220>
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<220>
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<210> 648
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<220>
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<210> 649

<211> 10

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<220>

<223> Peptide used to illustrate phosphorylation site

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<220>

<223> Peptide used to illustrate phosphorylation site

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<210> 651

<211> 4

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<400> 651

Pro Ser Ser Pro
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<210> 652

<211> 4

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<400> 652

Val Leu Ser Pro
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<220>
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 1 5 10

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 1 5 10

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<220>

<223> Peptide used to illustrate phosphorylation site

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<210> 658

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<220>

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1 5 10

<210> 659

<211> 11

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1 5 10

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<211> 11

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<220>

<223> Peptide used to illustrate phosphorylation site

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1 5 10

<210> 661

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<220>

<223> Peptide used to illustrate phosphorylation site

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<211> 8
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<210> 665
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<210> 666
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1 5

<210> 667
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<210> 669
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<400> 669
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<210> 670
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<210> 671
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<400> 672
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<210> 673
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<400> 673
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<210> 674
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1 5

<210> 675
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1 5

<210> 676
<211> 8
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1 5

<210> 677
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<400> 677
Glu Leu Thr Leu Ile Asp Phe Tyr
1 5

<210> 678
<211> 8
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<400> 678
Leu Thr Leu Ile Asp Phe Tyr Leu
1 5

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<400> 679
Thr Leu Ile Asp Phe Tyr Leu Cys
1 5

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<400> 680
 Leu Ile Asp Phe Tyr Leu Cys Phe
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<210> 681
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<400> 681
 Ile Asp Phe Tyr Leu Cys Phe Leu
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<210> 682
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<400> 682
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<210> 683
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<400> 683
 Phe Tyr Leu Cys Phe Leu Ala Phe
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<210> 684
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<400> 684
 Tyr Leu Cys Phe Leu Ala Phe Leu
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<210> 685
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<400> 685
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<400> 686
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<210> 687
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<400> 687
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<210> 688
 <211> 8
 <212> PRT
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<400> 688
 Leu Ala Phe Leu Leu Phe Leu Val
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<210> 689
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<400> 689
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<210> 690
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<400> 690
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<210> 691
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<400> 691
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<211> 8
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<400> 692
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1 5

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<211> 8
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<400> 693
Phe Leu Val Leu Ile Met Leu Ile
1 5

<210> 694
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<400> 694
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1 5

<210> 695
<211> 8
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<400> 695
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1 5

<210> 696
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<400> 696
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1 5

<210> 697
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<400> 697
Ile Met Leu Ile Ile Phe Trp Phe
1 5

<210> 698
 <211> 8
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<400> 698
 Met Leu Ile Ile Phe Trp Phe Ser
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<210> 699
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<400> 699
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<210> 700
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<400> 700
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<210> 701
 <211> 8
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<400> 701
 Ile Phe Trp Phe Ser Leu Glu Ile
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<210> 702
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<400> 702
 Phe Trp Phe Ser Leu Glu Ile Gln
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<210> 703
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<400> 703
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<210> 704
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<400> 704
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1 5

<210> 705
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<400> 705
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1 5

<210> 706
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<400> 706
Leu Glu Ile Gln Asp Leu Glu Glu
1 5

<210> 707
<211> 8
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<400> 707
Glu Ile Gln Asp Leu Glu Glu Pro
1 5

<210> 708
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<400> 708
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1 5

<210> 709
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<400> 709
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1 5

<210> 710
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<400> 710
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<210> 711
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<400> 711
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<210> 712
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1 5

<210> 714
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<210> 715
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<210> 716
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<400> 717
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<210> 718
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<210> 719
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<210> 720
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<210> 722
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<210> 723
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<210> 724
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<210> 725
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1 5

<210> 727
<211> 8
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<400> 727
Pro Pro Cys Tyr Asn Phe Leu Lys
1 5

<210> 728
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<400> 728
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<210> 729
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<210> 730
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<400> 730
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<210> 732
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<400> 732
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<210> 735
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<400> 735
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<210> 737
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 His Cys Gln Lys Ala Ser Thr Gln
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<400> 738
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<400> 739
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<210> 740
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<210> 742
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<400> 743
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<210> 747
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<400> 747
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1 5

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<210> 749
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1 5

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1 5

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<400> 752
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1 5

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1 5

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<400> 766
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1 5

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1 5

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<400> 768
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1 5

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1 5

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1 5

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<400> 773
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1 5

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<400> 774
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1 5

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Pro Cys Pro Thr Gly Tyr Gln Pro
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Ala Phe Ser Pro Ala Gln Asp Thr
1 5

<210> 1220
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<400> 1220
Phe Ser Pro Ala Gln Asp Thr Trp
1 5

<210> 1221
<211> 8
<212> PRT
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<400> 1221
Ser Pro Ala Gln Asp Thr Trp Gly
1 5

<210> 1222
<211> 8
<212> PRT
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<400> 1222

Asp Ala Leu Cys Glu Lys Ala Ser
1 5

<210> 1223

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1223

Ala Leu Cys Glu Lys Ala Ser Lys
1 5

<210> 1224

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1224

Leu Cys Glu Lys Ala Ser Lys Tyr
1 5

<210> 1225

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1225

Cys Glu Lys Ala Ser Lys Tyr Leu
1 5

<210> 1226

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1226

Glu Lys Ala Ser Lys Tyr Leu Pro
1 5

<210> 1227

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1227

Lys Ala Ser Lys Tyr Leu Pro Ile
1 5

<210> 1228

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1228

Ala Ser Lys Tyr Leu Pro Ile Asp

1

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<210> 1229

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1229

Ser Lys Tyr Leu Pro Ile Asp Lys

1

5

<210> 1230

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1230

Ser Val Ile Asp Leu Leu Leu Asn

1

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<210> 1231

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1231

Leu Leu Leu Asn Asp Phe Val Glu

1

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<210> 1232

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1232

Leu Leu Asn Asp Phe Val Glu Ile

1

5

<210> 1233

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1233

Leu Asn Asp Phe Val Glu Ile Ile

1

5

<210> 1234

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1234

Asn Asp Phe Val Glu Ile Ile Lys
1 5

<210> 1235

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1235

Leu Val Asp Ser Asp Leu Asn Glu
1 5

<210> 1236

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1236

Val Asp Ser Asp Leu Asn Glu Phe
1 5

<210> 1237

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1237

Asp Ser Asp Leu Asn Glu Phe Val
1 5

<210> 1238

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1238

Ser Asp Leu Asn Glu Phe Val Ser
1 5

<210> 1239

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1239

Asp Leu Asn Glu Phe Val Ser Asp
1 5

<210> 1240

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1240

Leu Asn Glu Phe Val Ser Asp Ala

1 5

<210> 1241

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1241

Asn Glu Phe Val Ser Asp Ala Asp

1 5

<210> 1242

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1242

Glu Phe Val Ser Asp Ala Asp Ser

1 5

<210> 1243

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1243

Ala Asn Tyr Ile Phe Trp Arg Lys

1 5

<210> 1244

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1244

Asn Tyr Ile Phe Trp Arg Lys Thr

1 5

<210> 1245

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1245

Tyr Ile Phe Trp Arg Lys Thr Asn

1 5

<210> 1246

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1246

Ile Phe Trp Arg Lys Thr Asn Pro
1 5

<210> 1247

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1247

Phe Trp Arg Lys Thr Asn Pro Ile
1 5

<210> 1248

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1248

Trp Arg Lys Thr Asn Pro Ile Gln
1 5

<210> 1249

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1249

Arg Lys Thr Asn Pro Ile Gln Leu
1 5

<210> 1250

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1250

Lys Thr Asn Pro Ile Gln Leu Ser
1 5

<210> 1251

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1251

Ser Ala Asp Ala Ser Thr Phe Phe
1 5

<210> 1252

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1252

Ala Asp Ala Ser Thr Phe Phe Lys

1 5

<210> 1253

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1253

Asp Ala Ser Thr Phe Phe Lys Arg

1 5

<210> 1254

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1254

Ala Ser Thr Phe Phe Lys Arg Val

1 5

<210> 1255

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1255

Ser Thr Phe Phe Lys Arg Val Cys

1 5

<210> 1256

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1256

Thr Phe Phe Lys Arg Val Cys Gly

1 5

<210> 1257

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1257

Phe Phe Lys Arg Val Cys Gly Val

1 5

<210> 1258

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1258

Phe Lys Arg Val Cys Gly Val Ser
1 5

<210> 1259

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1259

Lys Arg Val Cys Gly Val Ser Ala
1 5

<210> 1260

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1260

Glu Leu Phe Tyr Ser Tyr Ala Ile
1 5

<210> 1261

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1261

Leu Phe Tyr Ser Tyr Ala Ile His
1 5

<210> 1262

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1262

Phe Tyr Ser Tyr Ala Ile His His
1 5

<210> 1263

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1263

Tyr Ser Tyr Ala Ile His His Asp
1 5

<210> 1264

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1264

Ser Tyr Ala Ile His His Asp Lys

1 5

<210> 1265

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1265

Tyr Ala Ile His His Asp Lys Phe

1 5

<210> 1266

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1266

Ala Ile His His Asp Lys Phe Thr

1 5

<210> 1267

<211> 8

<212> PRT

<213> Human severe acute respiratory syndrome virus

<400> 1267

Ile His His Asp Lys Phe Thr Asp

1 5

<210> 1268

<211> 14

<212> PRT

<213> Unknown Organism

<220>

<223> Illustrative peptide having high affinity for its antigen

<400> 1268

Gly Ala Thr Pro Glu Asp Leu Asn Gln Lys Leu Ala Gly Asn

1 5 10

<210> 1269

<211> 17

<212> PRT

<213> Tobacco mosaic virus

<400> 1269

Cys Arg Gly Thr Gly Ser Tyr Asn Arg Ser Ser Phe Glu Ser Ser Ser

1 5 10 15

Gly

<210> 1270
 <211> 15
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Illustrative peptide having high affinity for its antigen

<400> 1270
 Asn Tyr Arg Ala Tyr Ala Thr Glu Pro His Ala Lys Lys Lys Ser
 1 5 10 15

<210> 1271
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 1271
 Arg Tyr Asp Ile Glu Ala Lys Val Thr Lys
 1 5 10

<210> 1272
 <211> 8
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Illustrative peptide having high affinity for its antigen

<400> 1272
 Asp Arg Val Tyr Ile His Pro Phe
 1 5

<210> 1273
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 1273
 Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser
 1 5 10

<210> 1274
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic HA tag

<400> 1274
Tyr Asp Val Pro Asp Tyr Ala Ser
1 5

<210> 1275
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic FLAG tag

<400> 1275
Met Asp Tyr Lys Ala Phe Asp Asn
1 5

<210> 1276
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic 5-His tag

<400> 1276
His His His His His
1 5

<210> 1277
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1277
Glu Pro Ala Glu Leu Thr Asp Ala
1 5

<210> 1278
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1278
Tyr Glu Val Gln Gly Glu Val Phe
1 5

<210> 1279
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1279
Gly Tyr Ser Ile Phe Ser Tyr Ala
1 5

<210> 1280
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 1280
 Leu Ser Glu Pro Ala Glu Leu Thr Asp Ala Val Lys
 1 5 10

<210> 1281
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 1281
 Asp Glu Pro Val Glu Leu Thr Ser Ala Pro Thr Gly His Thr Phe Ser
 1 5 10 15

<210> 1282
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 1282
 Ala Gly Glu Ala Ala Glu Leu Gln Asp Ala Glu Val Glu Ser Ser Ala
 1 5 10 15

Lys

<210> 1283
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 1283
 Leu Gln Glu Pro Ala Glu Leu Val Glu Ser Asp Gly Val Pro Lys
 1 5 10 15

<210> 1284
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 1284
 Ala Gln Pro Ala Glu Leu Val Asp Ser Ser Gly Trp
 1 5 10

<210> 1285
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 1285

Gly Leu Asp Pro Thr Gln Leu Thr Asp Ala Leu Thr Gln Arg
 1 5 10

<210> 1286

<211> 10

<212> PRT

<213> Homo sapiens

<400> 1286

Tyr Glu Val Gln Gly Glu Val Phe Thr Lys
 1 5 10

<210> 1287

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1287`

His Val Glu Val Asn Gly Glu Val Phe Gln Lys
 1 5 10

<210> 1288

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1288

Ser Tyr Glu Val Leu Gly Glu Glu Phe Asp Arg
 1 5 10

<210> 1289

<211> 13

<212> PRT

<213> Homo sapiens

<400> 1289

Gln Tyr Ala Val Ser Gly Glu Ile Phe Val Val Asp Arg
 1 5 10

<210> 1290

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1290

Val Tyr Glu Glu Gln Gly Glu Ile Ile Leu Lys
 1 5 10

<210> 1291

<211> 11

<212> PRT

<213> Homo sapiens

<400> 1291

Leu Tyr Glu Val Arg Gly Glu Thr Tyr Leu Lys
 1 5 10

<210> 1292

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1292

Glu Pro Val Glu Leu Thr Ser Ala
 1 5

<210> 1293

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1293

Asp Pro Thr Gln Leu Thr Asp Ala
 1 5

<210> 1294

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1294

Val Glu Val Asn Gly Glu Val Phe
 1 5

<210> 1295

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1295

Tyr Glu Val Leu Gly Glu Glu Phe
 1 5

<210> 1296

<211> 24

<212> PRT

<213> Homo sapiens

<400> 1296

His Ser Gln Pro Trp Gln Val Ala Val Tyr Ser His Gly Trp Ala His
 1 5 10 15

Cys Gly Gly Val Leu Val His Arg
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<210> 1297
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 1297
 Ile Val Gly Gly Trp Glu Cys Glu Gln His Ser Gln Pro Trp Gln Ala
 1 5 10 15

Ala Leu Tyr His Phe Ser Thr Phe Gln Cys Gly Gly Ile Leu Val His
 20 25 30

Lys

<210> 1298
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1298
 Gly Ser Gln Pro Trp Gln Val Ser Leu Phe Asn Gly Leu Ser Phe His
 1 5 10 15

Cys Ala Gly Val Leu Val Asp Arg
 20

<210> 1299
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 1299
 Asn Ser Gln Pro Trp Gln Val Gly Leu Phe Glu Gly Thr Ser Leu Arg
 1 5 10 15

<210> 1300
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 1300
 His Glu Cys Gln Pro His Ser Gln Pro Trp Gln Ala Ala Leu Phe Gln
 1 5 10 15

Gly Gln Gln Leu Leu Cys Gly Gly Val Leu Val Gly Arg
 20 25

<210> 1301
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 1301
 Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met
 1 5 10 15

Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Arg
 20 25

<210> 1302
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 1302
 Val Leu Asn Thr Asn Gly Thr Ser Gly Phe Leu Pro Gly Gly Tyr Thr
 1 5 10 15

Cys Phe Pro His Ser Gln Pro Trp Gln Ala Ala Leu Leu Val Gln Gly
 20 25 30

Arg

<210> 1303
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 1303
 Leu Leu Glu Gly Asp Glu Cys Ala Pro His Ser Gln Pro Trp Gln Val
 1 5 10 15

Ala Leu Tyr Glu Arg
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<210> 1304
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 1304
 Pro Asn Ser Gln Pro Trp Gln Ala Gly Leu Phe His Leu Thr Arg
 1 5 10 15

<210> 1305
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 1305
 Cys Val Thr Ala Gly Thr Ser Cys Leu Ile Ser Gly Trp Gly Ser Thr
 1 5 10 15

Ser Ser Pro Gln Leu Arg
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<210> 1306
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 1306
 Val Met Asp Leu Pro Thr Gln Glu Pro Ala Leu Gly Thr Thr Cys Tyr
 1 5 10 15

Ala Ser Gly Trp Gly Ser Ile Glu Pro Glu Glu Phe Leu Thr Pro Lys
 20 25 30

<210> 1307
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1307
 Arg Leu Asn Pro Gln Val Arg Pro Ala Val Leu Pro Thr Arg Cys Pro
 1 5 10 15

His Pro Gly Glu Ala Cys Val Val Ser Gly Trp Gly Leu Val Ser His
 20 25 30

Glu Pro Gly Thr Ala Gly Ser Pro Arg Ser Gln Gly
 35 40

<210> 1308
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 1308
 Arg Leu Asn Pro Gln
 1 5

<210> 1309
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1309
 Arg Leu Asn Pro Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gly Gly
 1 5 10 15

Ile Leu Gln Gly Ile Val Ser Trp Gly Asp Val Pro Cys Asp Asn Thr
 20 25 30

Thr Lys Pro Gly Val Tyr Thr Lys
 35 40

<210> 1310
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1310
 Ser Gly Trp Gly Leu Val Ser His
 1 5

<210> 1311
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1311
 Ala Gly Trp Gly Ile Val Asn His
 1 5

<210> 1312
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1312
 Ser Gly Trp Gly Ile Thr Asn His
 1 5

<210> 1313
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1313
 Ser Gly Trp Gly Met Val Thr Glu
 1 5

<210> 1314
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1314
 Trp Gly Asp Val Pro Cys Asp Asn
 1 5

<210> 1315
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1315
 Trp Lys Asp Val Pro Cys Glu Asp
 1 5

<210> 1316
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1316
 Trp Asn Asp Ala Pro Cys Asp Ser
 1 5

<210> 1317
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1317
 Trp Asn Asp Ala Pro Cys Asp Lys
 1 5

<210> 1318
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide tag

<400> 1318
 Met Asp Tyr Lys Ala Phe Asp Asn Leu Glu Gln Lys Leu Ile Ser Glu
 1 5 10 15

Glu Asp Leu

<210> 1319
 <211> 28
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MOD_RES
 <222> (8)
 <223> phosphoTyr

<220>
 <221> MOD_RES
 <222> (25)
 <223> phosphoSer

<400> 1319
 Asn Ser Phe Asn Asn Pro Ala Tyr Tyr Val Leu Glu Gly Val Pro His
 1 5 10 15
 Gln Leu Leu Pro Pro Glu Pro Pro Ser Pro Ala Arg
 20 25

<210> 1320
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1320
 Tyr Leu Thr Glu Gly Val Pro His
 1 5

<210> 1321
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1321
 Tyr Ile Leu Glu Ser Met Pro His
 1 5

<210> 1322
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1322
 Tyr Val Ile Met Gly Met Pro His
 1 5

<210> 1323
 <211> 15
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MOD_RES
 <222> (6)
 <223> phosphoTyr

<400> 1323
 Leu Gly Gly Gly Gln Tyr Gly Glu Val Tyr Glu Gly Val Trp Lys
 1 5 10 15

<210> 1324
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1324
 Glu Val Tyr Val Gly Val Trp Lys
 1 5

<210> 1325
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1325
 Glu Val Phe Glu Gly Leu Trp Lys
 1 5

<210> 1326
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1326
 Glu Val Tyr Glu Gly Val Tyr Thr
 1 5

<210> 1327
 <211> 23
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1327
 Trp Ser Gly Ser His Gln Phe Glu Gln Leu Ser Gly Ser Ile Leu Trp
 1 5 10 15

Met Ala Pro Glu Val Ile Arg
 20

<210> 1328
 <211> 16
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1328
 Met Ser Phe Ala Gly Thr Val Ala Trp Met Ala Pro Glu Val Ile Arg
 1 5 10 15

<210> 1329
 <211> 18
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1329
 Ser Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ala Ala Val
 1 5 10 15

Glu Arg

<210> 1330
 <211> 12
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1330
 Trp Met Ala Pro Glu Val Phe Thr Gln Cys Thr Arg
 1 5 10

<210> 1331
 <211> 20
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1331
 Leu Ser Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ala Ala
 1 5 10 15

Val Ala Leu Lys
20

<210> 1332
<211> 21
<212> PRT
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1332
Asp Ser Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Val Met
1 5 10 15

Cys Glu Thr Met Lys
20

<210> 1333
<211> 16
<212> PRT
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1333
Met Ser Phe Ala Gly Thr Val Ala Trp Met Ala Pro Glu Val Ile Arg
1 5 10 15

<210> 1334
<211> 21
<212> PRT
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1334
Ser Met His Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Asn Glu
1 5 10 15

Ser Gly Tyr Gly Arg
20

<210> 1335
<211> 24
<212> PRT
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1335

Asn	Thr	Val	Ile	Gly	Thr	Pro	Phe	Trp	Met	Ala	Pro	Glu	Val	Ile	Gln
1				5					10					15	

Glu	Ile	Gly	Tyr	Asn	Cys	Val	Arg
			20				

<210> 1336

<211> 23

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1336

Asn	Thr	Phe	Val	Gly	Thr	Pro	Phe	Trp	Met	Ala	Pro	Glu	Val	Ile	Gln
1				5					10					15	

Gln	Ser	Ala	Tyr	Asp	Ser	Lys
			20			

<210> 1337

<211> 28

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1337

Asn	Thr	Ser	Val	Gly	Thr	Pro	Phe	Trp	Met	Ala	Pro	Glu	Val	Ile	Ala
1				5					10					15	

Cys	Glu	Gln	Gln	Leu	Asp	Thr	Thr	Tyr	Asp	Ala	Arg
			20					25			

<210> 1338

<211> 28

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1338

Asn Thr Ser Val Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Ala
 1 5 10 15

Cys Glu Gln Gln Tyr Asp Ser Ser Tyr Asp Ala Arg
 20 25

<210> 1339

<211> 28

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1339

Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Ala
 1 5 10 15

Cys Asp Glu Asn Pro Asp Ala Thr Tyr Asp Tyr Arg
 20 25

<210> 1340

<211> 18

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1340

Thr Phe Val Gly Thr Pro Cys Trp Met Ala Pro Glu Val Met Glu Gln
 1 5 10 15

Val Arg

<210> 1341

<211> 17

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
parental tryptic peptide

<400> 1341

Ser Thr Met Val Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Val Thr
 1 5 10 15

Arg

<210> 1342
 <211> 16
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1342
 Ser Leu Val Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Ser Arg
 1 5 10 15

<210> 1343
 <211> 23
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1343
 Trp Ser Gly Ser Gln Gln Val Glu Gln Pro Thr Gly Ser Val Leu Trp
 1 5 10 15

Met Ala Pro Glu Val Ile Arg
 20

<210> 1344
 <211> 18
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1344
 Thr Phe Val Gly Thr Pro Cys Trp Met Ala Pro Glu Val Met Glu Gln
 1 5 10 15

Val Arg

<210> 1345
 <211> 33
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1345

Ala Ser Met Ala Ser Pro Ala Asn Ser Phe Val Gly Thr Pro Tyr Trp
 1 5 10 15

Met Ala Pro Glu Val Ile Leu Ala Met Asp Glu Gly Gln Tyr Asp Gly
 20 25 30

Lys

<210> 1346

<211> 33

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1346

Ala Ser Ile Met Ala Pro Ala Asn Ser Phe Val Gly Thr Pro Tyr Trp
 1 5 10 15

Met Ala Pro Glu Val Ile Leu Ala Met Asp Glu Gly Gln Tyr Asp Gly
 20 25 30

Lys

<210> 1347

<211> 18

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1347

Glu Pro Leu Ala Val Val Gly Ser Pro Tyr Trp Met Ala Pro Glu Val
 1 5 10 15

Leu Arg

<210> 1348

<211> 22

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Illustrative
 parental tryptic peptide

<400> 1348

Thr Thr His Met Ser Leu Val Gly Thr Phe Pro Trp Met Ala Pro Glu
 1 5 10 15

Val Ile Gln Ser Leu Arg
 20

<210> 1349

<211> 63

<212> PRT

<213> Human severe acute respiratory system virus

<400> 1349

Met Phe His Leu Val Asp Phe Gln Val Thr Ile Ala Glu Ile Leu Ile
 1 5 10 15

Ile Ile Met Arg Thr Phe Arg Ile Ala Ile Trp Asn Leu Asp Val Ile
 20 25 30

Ile Ser Ser Ile Val Arg Gln Leu Phe Lys Pro Leu Thr Lys Lys Asn
 35 40 45

Tyr Ser Glu Leu Asp Asp Glu Glu Pro Met Glu Leu Asp Tyr Pro
 50 55 60

<210> 1350

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1350

Met Phe Asp Leu Val Asp Tyr Lys
 1 5

<210> 1351

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1351

Met Phe His Pro Met Asp Phe Glu
 1 5

<210> 1352

<211> 8

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Coronavirus
 peptide

<400> 1352
 Ser Phe His Phe Ile Asp Phe Tyr
 1 5

<210> 1353
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1353
 Tyr Ser Glu Leu Asp Gly Glu Glu
 1 5

<210> 1354
 <211> 8
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Coronavirus
 peptide

<400> 1354
 Tyr Ser Ser Leu Asn Asp Glu Phe
 1 5

<210> 1355
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 1355
 Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala
 1 5 10 15
 Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr
 20 25 30

Val Gly Arg Lys
 35

<210> 1356
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1356
 Asn His His Ser Pro Gly Gly Ser
 1 5

<210> 1357
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1357

Gln Gln His Asn Pro Ala Ala Asn
 1 5

<210> 1358

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1358

Asn Lys His Gly Pro Gly Val Ser
 1 5

<210> 1359

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1359

Glu Pro Leu Thr Ile Leu Tyr Tyr
 1 5

<210> 1360

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1360

Asp Pro Leu Pro Val Arg Tyr Tyr
 1 5

<210> 1361

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1361

Glu Pro Leu Pro Ser Gln Tyr Tyr
 1 5

<210> 1362

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1362

Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser
 1 5 10 15

Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr
 20 25 30

Ile Gly Lys Thr
35

<210> 1363
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1363
Asn Thr Leu Asn Pro Glu Ala Ser
1 5

<210> 1364
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1364
Asn Lys Leu Asp Pro Glu Ala Ser
1 5

<210> 1365
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1365
Asn Thr Ala Asn Pro Glu Arg Ser
1 5

<210> 1366
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1366
Pro Gln Asp Leu Glu Pro Leu Thr
1 5

<210> 1367
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1367
Ser Glu Asp Leu Glu Pro Leu Ala
1 5

<210> 1368
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1368

Ser Gln Asp Leu Asp Pro Met Ala
 1 5

<210> 1369

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1369

Arg Ser Ala Asp Thr Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr
 1 5 10 15

Leu Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu
 20 25 30

Glu Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg Thr
 35 40

<210> 1370

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1370

Ser Ala His Ser Thr His Ser Thr
 1 5

<210> 1371

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1371

Ser Ser Asp Thr Thr His Ala Ser
 1 5

<210> 1372

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1372

Ala Ala Glu Ala Thr His Ser Thr
 1 5

<210> 1373

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1373

Asn Thr Ile Asn Pro Glu Ala Ser
 1 5

<210> 1374
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1374
 Asn Lys Leu Asp Pro Glu Ala Ser
 1 5

<210> 1375
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1375
 Asn Thr Ala Asn Pro Glu Arg Ser
 1 5

<210> 1376
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1376
 Met Lys Trp Ala Lys Asn Trp Val Leu Glu Pro Pro Gly Phe Leu Ala
 1 5 10 15
 Tyr Glu Cys Val Gly Thr Cys Gln Gln Pro Pro Glu Ala Leu Ala Phe
 20 25 30
 Asn Trp Pro Phe Leu Gly Pro Arg Gln
 35 40

<210> 1377
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1377
 Asn Trp Ala Val Asp Pro Pro Gly
 1 5

<210> 1378
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1378
 His Trp Val Val Ser Pro Pro Gly
 1 5

<210> 1379
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1379
Asn Trp Val Arg Leu Pro Pro Gly
1 5

<210> 1380
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1380
Gln Pro Pro Glu Ala Phe Gly Phe
1 5

<210> 1381
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1381
Lys Pro Pro Glu Ala Leu Ala Met
1 5

<210> 1382
<211> 8
<212> PRT
<213> Homo sapiens

<400> 1382
Gln Pro Pro Glu Ala Lys Lys Phe
1 5

<210> 1383
<211> 6
<212> PRT
<213> Homo sapiens

<400> 1383
Arg His Arg Arg Ala Leu
1 5

<210> 1384
<211> 6
<212> PRT
<213> Homo sapiens

<400> 1384
Arg Lys Lys Arg Ala Leu
1 5

<210> 1385

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1385

Arg Lys Lys Arg Ala Leu

1

5

<210> 1386

<211> 4

<212> PRT

<213> Homo sapiens

<400> 1386

Arg His Arg Arg

1